

Abstract of the Disclosure

5 An efficient method for software-pipelining (SWP) of loops to translate programs,
from higher level languages into equivalent object or machine language code for
execution on a computer. In one example embodiment, this is accomplished by spilling
and filling multiple computed values, in a register, that are live across multiple stages in a
software-pipelined loop, using multiple rotating stack memory locations to reduce
compiler-time of SWP, and complexity of the implemented SWP.

10

"Express Mail" mailing label number: EV 332568842 US

Date of Deposit: September 29, 2003

This paper or fee is being deposited on the date indicated above with
the United States Postal Service pursuant to 37 CFR 1.10, and is
addressed to the Commissioner for Patents, Mail Stop Patent
Application, P.O. Box 1450, Alexandria, VA 22313-1450.